

## **Multi-connector** Series DM

No. of Connecting Tubes: 6, 12

The use of the multiconnector enables panel mount connections with other apparatus and can provide the reliability of one-touch installation and removal of multi-tubes (nylon, polyurethane). As a result, separate transportation of panel, machinery, and backup units is made easy.

#### One-touch installation and removal

Employs the unique built-in keying mechanism which provides one-touch installation and removal capability even in hard to see locations. In addition, it prevents installation mistakes when reconnecting.

#### Installation processes are reduced considerably

As compared with the use of many bulkhead unions, this installation is very easy and installation time is reduced considerably.

#### Reliable tube retaining force

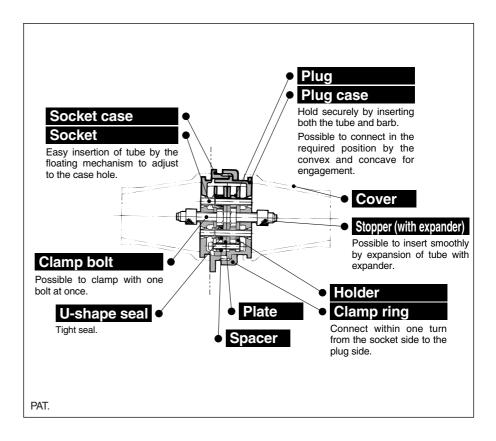
This construction mechanism enables clamping and unclamping of every tube in use by one operation and can provide a reliable tube retaining force.

#### No. of connecting tubes

2 types-6 tubes & 12 tubes.







#### Model

No. of	Model		Applicable tubing			Accessory	
connecting tubes	Multi-connector	Plug side	Socket side	Nylon	Soft nylon	Polyurethane	(Option)
	DM6-04N	DM6P-04N	DM6S-04N	T0425	_	_	
6	DM6-04NU	DM6P-04NU	DM6S-04NU	T0403	TS0425	TU0425	DM-C-6
0	DM6-06N	DM6P-06N	DM6S-06N	T0604	_	_	DIVI-C-6
	DM6-06NU	DM6P-06NU	DM6S-06NU	T0645	TS0604	TU0604	
	DM12-04N	DM12P-04N	DM12S-04N	T0425	_	_	
12	DM12-04NU	DM12P-04NU	DM12S-04NU	T0403	TS0425	TU0425	DM-C-12
12	DM12-06N	DM12P-06N	DM12S-06N	T0604	_	_	DIVI-C-12
	DM12-06NU	DM12P-06NU	DM12S-06NU	T0645	TS0604	TU0604	

#### **Specifications**

Fluid	Air	
Maximum operating pressure	1.0 MPa	
Ambient and fluid temperature	−5 to 60°C (No freezing)	

#### **Principal Parts Material**

Socket case, Plug case, Clamp ring	ADC12 black anodized
Plate	SPCC, Chromated
Holder	SPCC, Zinc chromated
Socket, Plug, Stopper	C3604BD
U packing	NBR
Cover	CR
Cross-recessed head machine screw, Clamp bolt	SWRM Zinc chromated
Spacer	SPC Zinc chromated

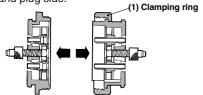


#### How to Use

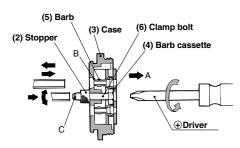
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#### Removing

Loosen clamp ring (1), and separate the multiconnector into two parts, multiconnector into two parts, socket side and plug side.



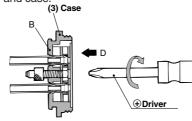
#### Insertion and removal of tube



- Turn the clamp bolt (6) to the left with a screwdriver, loosen until the stopper (2) touches the case (3), and barb cassette (4) will be pulled out in the direction A. Then clamp portion B, consisting of barb (5) and case (3), will be freed. Next, insert or remove the tube.
- The corresponding numbers are stamped on both the socket and plug sides for each tube connection.
- If it is hard to insert the tube, enlarge the tube end with the head of stopper (2), expander C, before inserting tube.
- **4.** Insert tube until it clears mounting of barb (5) completely.

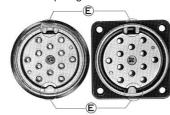
#### Clamping of tube

- After inserting tube, tighten clamp bolt
   (6) clockwise with a screwdriver.
- Barb cassette creeps into the direction D and the tube will be clamped at the B clamp portion (5) consisting of barb (3) and case.



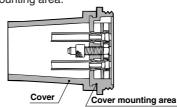
#### Connection

- Push together and rotate both of the cases, and the plug side will slide into the socket side at the proper position.
- The ring E, male and female, of the plug side and socket side will interlock with each other at the proper position by pushing together and rotating.
- **3.** Final process of connection is to screwin the clamp ring.

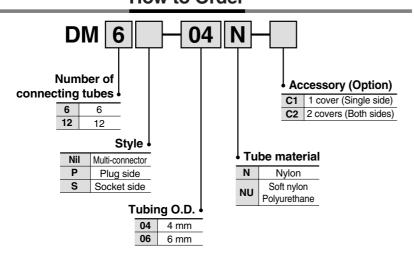


#### **Cover mounting**

- **1.** Cover is mountable on both sides, plug side and socket side.
- **2.** Enlarge cover and mount cover onto mounting area.



#### **How to Order**



 $\mathsf{K}\square$ 

 $\mathsf{M}\square$ 

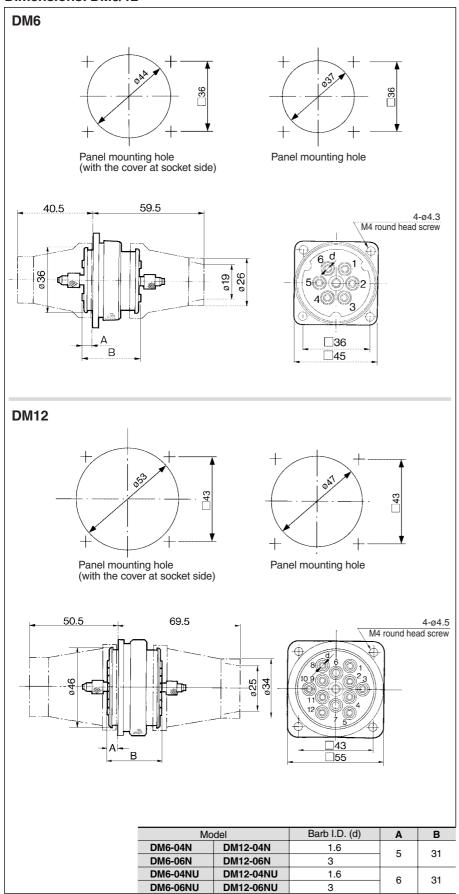
MS



VMG

## Series DM

#### **Dimensions: DM6/12**



## **A**Precautions

Be sure to read before handling.

Refer to pages 15-18-3 to 15-18-4 in the front matter for Safety Instructions and Common Precautions mentioned in this catalog, and refer to pages 15-1-10 to 15-1-11 for Precautions on every series.

#### Installing of Tube

#### **⚠** Caution

- Be sure to insert the tube slowly so that you will feel it move smoothly and can feel it touch the end. Once the tube has been properly inserted, pull it back gently, to make sure that it has a positive seal. If not inserted properly, it may cause air to leak or tube to release.
- 2. When the number of tubes to be used is less than 6 (DM6) or 12 (DM12), the positioning of the tube should be symmetrical to the center.

K□

M□

H□

D□

MS

T□

VMG

# Multi-connector with One-touch Fittings Series DIK

No. of Connecting Tubes: 6, 12

Multi-connector with One-touch fittings provide quick and easy installation and removal of multiple tubing (nylon, soft nylon, and polyurethane) when connecting to a panel of a device.

A unique positioning mechanism allows accurate installation and removal of tubing with ease even in a hard-to-see locations, while preventing piping errors when reconnecting.

#### **Built-in One-touch fittings**

Applicable to nylon, soft nylon, and polyurethane tubes.

#### Saves installation time

Unlike the use of multiple bulkhead unions for panel, Series DMK with built-in One-touch fittings significantly reduces the piping time.

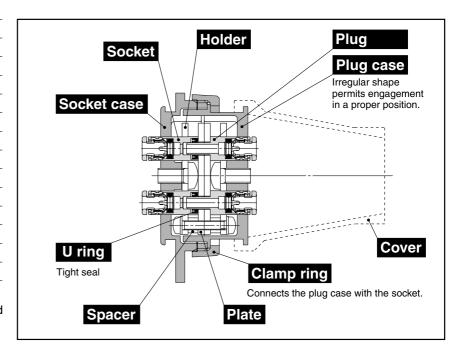
#### Secure tube connection

Tubes are easily and securely connected to the multi-connector with built-in One-touch fittings.

#### No. of connecting tubes:

2 types of multi-connectors are available: 6 tubes and 12 tubes.





#### Model

	No. of		Cover part no.			
	connecting tubes	Multi-connector	Plug side only	Socket side only	(Option )	
	6	DMK6-23	DMK6P-23	DMK6S-23	DMK-C-6	
		DMK6-04	DMK6P-04	DMK6S-04		
	10	DMK12-23	DMK12P-23	DMK12S-23	DMMC O 40	
	12	DMK12-04	DMK12P-04	DMK12S-04	DMK-C-12	

#### **Specifications**

Applicable tubing materials	Nylon, Soft nylon, Polyurethane		
Applicable tubing O.D. (mm)	3.2, 4		
Fluid	Air		
Maximum operating pressure	1.0 MPa		
Ambient and fluid temperature	−5 to 60°C (With no condensation)		

#### **Principal Parts Material**

	DMK6	DMK12	
Socket case			
Plug case	ADC12, White half-polished finish		
Clamp ring			
Plate	SPCC, Chromated		
Holder	SPCC, Zinc chromated	A5052, Hard anodized	
Socket	C3604BD Electroless nickel plated, POM, Stainless steel 304		
Plug			
U ring	NBR		
Cover	Silicon rubber		
Round head phillips screw	SWRM, Nickel plated		
Round head phillips screw with flat washer	SWRM, Zinc chromated		
Spacer	SPC, Zinc chromated		

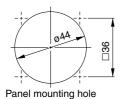


## Multi-connector with One-touch Fittings Series DMK

#### **How to Order** DMK 6 04 Number of connecting tubes Accessory (Option) 6 6 Nil 12 Cover single side 1 pc. C<sub>1</sub> 12 C2 Cover both sides 2 pcs. Style Tubing O.D. Nil Multi-connector Р Plug side only 23 3.2 mm Socket side only 04 4 mm

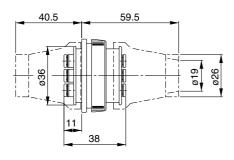
#### **Dimensions**

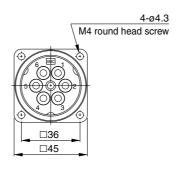
#### DMK6



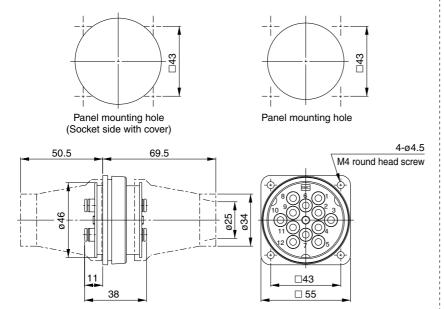
(Socket side with cover)

Panel mounting hole





#### **DMK12**



## **A**Precautions

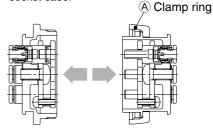
Be sure to read before handling.
Please consult with SMC when the required specification is out of range.

#### **How to Use**

### **⚠** Caution

#### Disassembly

(1) Loosen clamp ring (A) and disassemble the connector into the plug case and socket case.











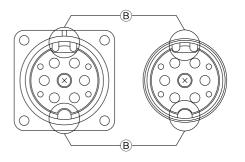






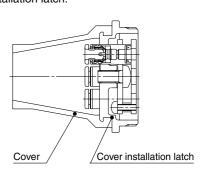
#### Connection

- (1) Turn the cases while pressing them against each other until the plug case slides into the socket case at a proper position.
- (2) Align at mark (B) of the plug and socket cases and turn them against each other to connect the two cases.
- (3) Screw in the clamp ring to complete the connection.



#### Installation of cover

- (1) The cover can be installed on both the plug case or socket case.
- (2) Stretch the cover to install on the cover installation latch.







## **Safety Instructions**

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of **"Caution"**, **"Warning"** or **"Danger"**. To ensure safety, be sure to observe ISO 4414 Note 1), JIS B 8370 Note 2) and other safety practices.

**Caution:** Operator error could result in injury or equipment damage.

**Warning**: Operator error could result in serious injury or loss of life.

**Danger**: In extreme conditions, there is a possible result of serious injury or loss of life.

Note 1) ISO 4414: Pneumatic fluid power--General rules relating to systems.

Note 2) JIS B 8370: General Rules for Pneumatic Equipment

## **Marning**

1. The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.

Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements. The expected performance and safety assurance will be the responsibility of the person who has determined the compatibility of the system. This person should continuously review the suitability of all items specified, referring to the latest catalog information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

2. Only trained personnel should operate pneumatically operated machinery and equipment.

Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

- 3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.
  - 1. Inspection and maintenance of machinery/equipment should only be performed once measures to prevent falling or runaway of the driver objects have been confirmed.
  - 2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for this equipment and exhaust all residual compressed air in the system.
  - Before machinery/equipment is restarted, take measures to prevent shooting-out of cylinder piston rod, etc.
- 4. Contact SMC if the product is to be used in any of the following conditions:
  - 1. Conditions and environments beyond the given specifications, or if product is used outdoors.
  - 2. Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, clutch and brake circuits in press applications, or safety equipment.
  - 3. An application which has the possibility of having negative effects on people, property, or animals, requiring special safety analysis.



## M

## **Common Precautions**

Be sure to read before handling. For detailed precautions on every series, refer to main text.

#### **Selection**

## ⚠ Warning

#### 1. Confirm the specifications.

Products represented in this catalog are designed for use in compressed air appllications only (including vacuum), unless otherwise indicated.

Do not use the product outside their design parameters.

Please contact SMC when using the products in applications other than compressed air (including vacuum).

#### Mounting

## **Marning**

#### 1. Instruction manual

Install the products and operate them only after reading the instruction manual carefully and understanding its contents. Also keep the manual where it can be referred to as necessary.

#### 2. Securing the space for maintenance

When installing the products, please allow access for maintenance.

#### 3. Tightening torque

When installing the products, please follow the listed torque specifications.

#### **Piping**

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#### 1. Before piping

Make sure that all debris, cutting oil, dust, etc, are removed from the piping.

#### 2. Wrapping of pipe tape

When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not get inside the piping. Also, when the pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.

#### **Air Supply**

## **⚠** Warning

#### 1. Operating fluid

Please consult with SMC when using the product in applications other than compressed air (including vacuum). Regarding products for general fluid, please ask SMC about applicable fluids.

#### 2. Install an air dryer, aftercooler, etc.

Excessive condensate in a compressed air system may cause valves and other pneumatic equipment to malfunction. Installation of an air dryer, after cooler etc. is recommended.

#### 3. Drain flushing

If condensate in the drain bowl is not emptied on a regular basis, the bowl will over flow and allow the condensate to enter the compressed air lines.

If the drain bowl is difficult to check and remove, it is recommended that a drain bowl with the auto-drain option be installed.

For compressed air quality, refer to "Air Preparation Equipment" catalog.

#### 4. Use clean air

If the compressed air supply is contaminated with chemicals, cynthetic materials, corrosive gas, etc., it may lead to break down or malfunction.

#### **Operating Environment**

#### \land Warning

- 1. Do not use in environments where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.
- 2. Do not expose the product to direct sunlight for an extended period of time.
- 3. Do not use in a place subject to heavy vibrations and/or shocks.
- 4. Do not mount the product in locations where it is exposed to radiant heat.

#### **Maintenance**

### \land Warning

## 1. Maintenance procedures are outlined in the operation manual.

Not following proper procedures could cause the product to malfunction and could lead to damage to the equipment or machine.

#### 2. Maintenance work

If handled improperly, compressed air can be dangerous. Assembly, handling and repair of pneumatic systems should be performed by qualified personnel only.

#### 3. Drain flushing

Remove drainage from air filters regularly. (Refer to the specifications.)

#### 4. Shut-down before maintenance

Before attempting any kind of maintenance make sure the supply pressure is shut of and all residual air pressure is released from the system to be worked on.

#### 5. Start-up after maintenance and inspection

Apply operating pressure and power to the equipment and check for proper operation and possible air leaks. If operation is abnormal, please verify product set-up parameters.

#### 6. Do not make any modifications to be product.

Do not take the product apart.



# Quality Assurance Information (ISO 9001, ISO 14001)

### Reliable quality of products in the global market

To enable our customers throughout the world to use our products with even greater confidence, SMC has obtained certification for international standards "ISO 9001" and "ISO 14001", and created a complete structure for quality assurance and environmental controls. **SMC** products to pursue meet customers' expectations while also considering company's contribution in society.

## Quality management system $ISO\ 9001$

This is an international standard for quality control and quality assurance. SMC has obtained a large number of certifications in Japan and overseas, providing assurance to our customers throughout the world.







## Environmental management system $ISO\ 14001$

This is an international standard related to environmental management systems and environmental inspections. While promoting environmentally friendly automation technology, SMC is also making diligent efforts to preserve the environment.

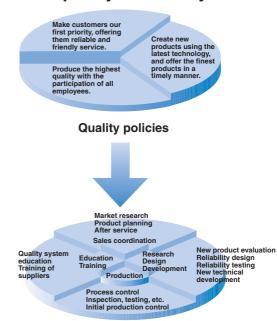






**SMC** 

#### SMC's quality control system



**Quality control activities** 

## **SMC Product Conforming to Inter**

SMC products complying with EN/ISO, CSA/UL standards are supporting



The CE mark indicates that machines and components meet essential requirements of all the EC Directives applied.

It has been obligatory to apply CE marks indicating conformity with EC Directives when machines and components are exported to the member Nations of the EU.

Once "A manufacturer himself" declares a product to be safe by means of CE marking (declaration of conformity by manufacturer), free distribution inside the member Nations of the EU is permissible.

#### **■ CE Mark**

SMC provides CE marking to products to which EMC and Low Voltage Directives have been applied, in accordance with CETOP (European hydraulics and pneumatics committee) guide lines.

■ As of February 1998, the following 18 countries will be obliged to conform to CE mark legislation lceland, Ireland, United Kingdom, Italy, Austria, Netherlands, Greece, Liechtenstein, Sweden, Spain, Denmark, Germany, Norway, Finland, France, Belgium, Portugal, Luxembourg

#### **■ EC Directives and Pneumatic Components**

#### Machinery Directive

The Machinery Directive contains essential health and safety requirements for machinery, as applied to industrial machines e.g. machine tools, injection molding machines and automatic machines. Pneumatic equipment is not specified in Machinery Directive. However, the use of SMC products that are certified as conforming to EN Standards, allows customers to simplify preparation work of the Technical Construction File required for a Declaration of Conformity.

#### Electromagnetic Compatibility (EMC) Directive

The EMC Directive specifies electromagnetic compatibility. Equipment which may generate electromagnetic interference or whose function may be compromised by electromagnetic interference is required to be immune to electromagnetic affects (EMS/immunity) without emitting excessive electromagnetic affects (EMI/emission).

#### Low Voltage Directive

This directive is applied to products, which operate above 50 VAC to 1000 VAC and 75 VDC to 1500 VDC operating voltage, and require electrical safety measures to be introduced.

#### • Simple Pressure Vessels Directive

This directive is applied to welded vessels whose maximum operating pressure (PS) and volume of vessel (V) exceed 50 bar/L. Such vessels require EC type examination and then CE marking.



## national Standards

you to comply with EC directives and CSA/UL standards.



#### ■ CSA Standards & UL Standards

UL and CSA standards have been applied in North America (U.S.A. and Canada) symbolizing safety of electric products, and are defined to mainly prevent danger from electric shock or fire, resulting from trouble with electric products. Both UL and CSA standards are acknowledged in North America as the first class certifying body. They have a long experience and ability for issuing product safety certificate. Products approved by CSA or UL standards are accepted in most states and governments beyond question.

Since CSA is a test certifying body as the National Recognized Testing Laboratory (NRTL) within the jurisdiction of Occupational Safety and Health Administration (OSHA), SMC was tested for compliance with CSA Standards and UL Standards at the same time and was approved for compliance with the two Standards. The above CSA NRTL/C logo is described on a product label in order to indicate that the product is approved by CSA and UL Standards.

#### **■ TSSA (MCCR) Registration Products**

TSSA is the regulation in Ontario State, Canada. The products that the operating pressure is more than 5 psi (0.03 MPa) and the piping size is bigger than 1 inch. fall into the scope of TSSA regulation.

#### **Products conforming to CE Standard**

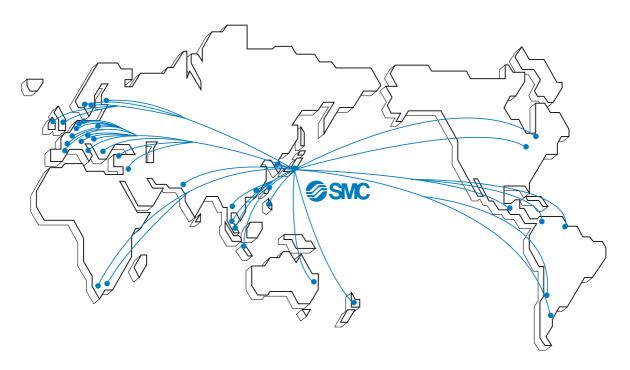


In this catalog each accredited product series is indicated with a CE mark symbol. However, in some cases, every available models may not meet CE compliance. Please visit our web site for the latest selection of available models with CE mark.

http://www.smcworld.com



## **SMC's Global Service Network**



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